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Client Reference: 2980523US/VK/HER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of: MUHONEN Confirmation Number: 2170  
ET AL.

Application No.: 09/830,816

Group Art Unit: 2682

Filed: April 27, 2001

Examiner: Dao, Minh D.

Title: LOCATION SERVICES IN A PACKET RADIO NETWORK

PROPOSED INTERVIEW AGENDA

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

1) Status of Claims

- a) Claims 1-15 (method claims) and Claim 16 (apparatus claim) pending.
- b) Claims 4 and 5 include allowable subject matter.
- c) Claims 1-3, 6-8, and 14-16 rejected under 35 U.S.C. § 103(a) as being unpatentable over Silver et al. (U.S. Patent No. 6,560,457) in view of a new reference, Fried et al. (U.S. Patent No. 6,094,581).
- d) Claims 9-13 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Silver et al. in view of Fried et al. and Billstrom et al. (U.S. Patent No. 5,590,133).

2) Traversal of Prior Art Rejections

- a) Combined teachings of the cited prior art references fail to teach or suggest a method for providing location service information related to a mobile station in a mobile communications system supporting connections of a first type and a second type, the method comprising "retrieving the location service information related to the mobile station. . . wherein the retrieving further comprises: determining a preferred type of connection for the retrieving based on the first set of predetermined criteria. . ." as recited in independent claim 1 and its dependent claims 2-15.
- b) Combined teachings of the cited prior art references fail to teach or suggest an arrangement for supporting location service information related to a mobile station in a mobile communications system supporting circuit-switched communications and packet-switched communications, the arrangement being configured to "retrieve the location service information related to the mobile station; and . . . determine a preferred type of connection for the retrieving on the basis of a first set of predetermined criteria. . ." as recited in independent claim 16.
- c) Silver

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- i) Contrary to the assertions of the Office Action, these features are not disclosed, taught or suggested by Silver. As indicated in the text of Applicants' specification, there is a clear distinction between the term "location management", which is necessary for call routing, and "location services", which provide value-added services.

Refer to: Col. 9 (US 200)  
(Silver)

- ii) While Silver refers to location services, the passage cited by the Office Action actually relates to location management, not location services; specifically, column 5, lines 21-31 merely discloses how an incoming call to MT 130 is set up through the circuit-switched network 110 by signalling over both the DCCH and PCCH channels of the wireless links 132 and 134. Thus, Silver merely relates to location management while the claimed invention relates to location service information.

Silver discloses both:  
circuit-switched (Network 110)  
Packet-switched (Network 120)

Refer to Fig. 1

- iii) Further, even assuming for argument's sake that the teachings of the passage at column 5, lines 21-31 could be applied to location services, that passage fails to disclose, teach or suggest determination of a preferred type of connection for the retrieval of location service information related to a mobile station based on a first set of predetermined criteria, as recited in independent claims 1 and 16 and their respective dependent claims. Rather, Silver merely discloses a circuit-switched network 110 which is a fixed connection. Therefore, since there is only one fixed connection, there is nothing which could be considered to be a "non-preferred type" of connection; this is why Silver does not disclose, teach or suggest any motivation to determine a preferred type of connection.

d) Fried

- i) Contrary to Office Action, Fried (col. 7, line 11-20) fails to teach or suggest "determining a preferred type of connection for said retrieving step on the basis of a first set of predetermined criteria," as recited in independent claim 1. Like Silver, Fried relates only to location management.

Refer to: Col. 7,  
(Fried)

e) Billstrom

- i) Billstrom fails to remedy these deficiencies of Silver and Fried because Billstrom merely teaches particulars on Packet Data Protocol contexts. Therefore, the combined teachings of Silver and Billstrom fail to teach or suggest the claimed invention including determination of a preferred type of connection for the retrieval of location service information related to a mobile station based on a first set of predetermined criteria.

Refer to:  
Col. 18  
(Billstrom)



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